

# Technical Data Sheet

## BMC USP/FCC/EP/E504 Basic Magnesium Carbonate

For use in the manufacture of antacid preparations and mineral supplements. Meets the chemical requirements of the USP, FCC, EP Pharmacopoeias and E504 (current edition) for Basic Magnesium Carbonate.

### Chemical & Physical Analysis

Magnesium Oxide as MgO (USP,FCC)  
Magnesium Oxide as MgO (EP,E504)  
Identification  
Identification (EP)  
Solution S (EP)  
Appearance of Solution (EP)  
Soluble Salts / Substances  
Acid-Insoluble Substances /Substances Insoluble  
Free Alkali /Alkalinity (E504)  
Chlorides as Cl (EP)  
Sulphates as SO<sub>4</sub> (EP)  
Arsenic as As (USP)  
Arsenic as As (EP)  
Arsenic as As (E504)  
Arsenic as As  
Calcium as Ca (USP)  
Calcium as Ca (EP)  
Calcium as Ca (E504)  
Calcium as CaO (FCC)  
Iron as Fe (USP)  
Iron as Fe (EP)  
Lead as Pb (FCC)  
Lead as Pb  
Lead as Pb  
Mercury as Hg (E504)  
Microbial Limit - E.Coli (USP)  
Particle size: residue on 325 mesh (wet sieve)  
Bulk Density (untapped) (EP)  
Tapped Density (1000 taps)

### Specification

40.0-43.5%  
40.0-45.0%  
Positive test for Magnesium  
Positive test for Carbonates  
To pass test  
To pass test  
1.00% max  
0.05% max  
2.00 ml max  
0.07% max  
0.60% max  
4 ppm max  
2 ppm max  
3 ppm max  
1.5 ppm max (ICH Q3D)  
0.45% max  
0.75% max  
1.00% max  
0.60% max  
0.02% max  
0.04% max  
2 ppm max  
0.5 ppm max (ICH Q3D)  
0.1 ppm max \*  
1 ppm max  
Absence/g  
0.3% max  
0.25 g/cc min  
0.43 g/cc min

### Typical Value

42.0%  
42.0%  
Passed Test  
Passed Test  
Passed Test  
Passed Test  
0.30%  
0.02%  
< 0.5 ml  
0.02%  
0.10%  
< 1 ppm  
< 1 ppm  
< 1 ppm  
< 1 ppm  
0.10%  
0.10%  
0.10%  
0.10%  
0.005%  
0.005%  
< 0.1 ppm  
< 0.1 ppm  
< 0.1 ppm  
< 0.5 ppm  
Absent  
0.1%  
0.35 g/cc  
0.50 g/cc

Current ICH Q3D tested and comply.

Where a parameter has to meet several pharmacopoeias or food registrations, it will be tested against the strictest of those registrations.

**Appearance and description:** Free flowing white powder, almost insoluble in water and alcohol.

Dissolves in dilute mineral acids with effervescence. (Caution! Exothermic reaction!).

**Packaging and storage:** Net 20 kg in multiwall paper bags with separately sealed moisture proof inner polyethylene bag.

Store in original packaging in a dry, ventilated space. Keep away from moisture and acids.

**Shelf-life under suitable storage conditions:** 4 years from date of manufacture.

Customer-tailored specifications and other packaging modes are available.

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\* - Inspection or field according to specific requests